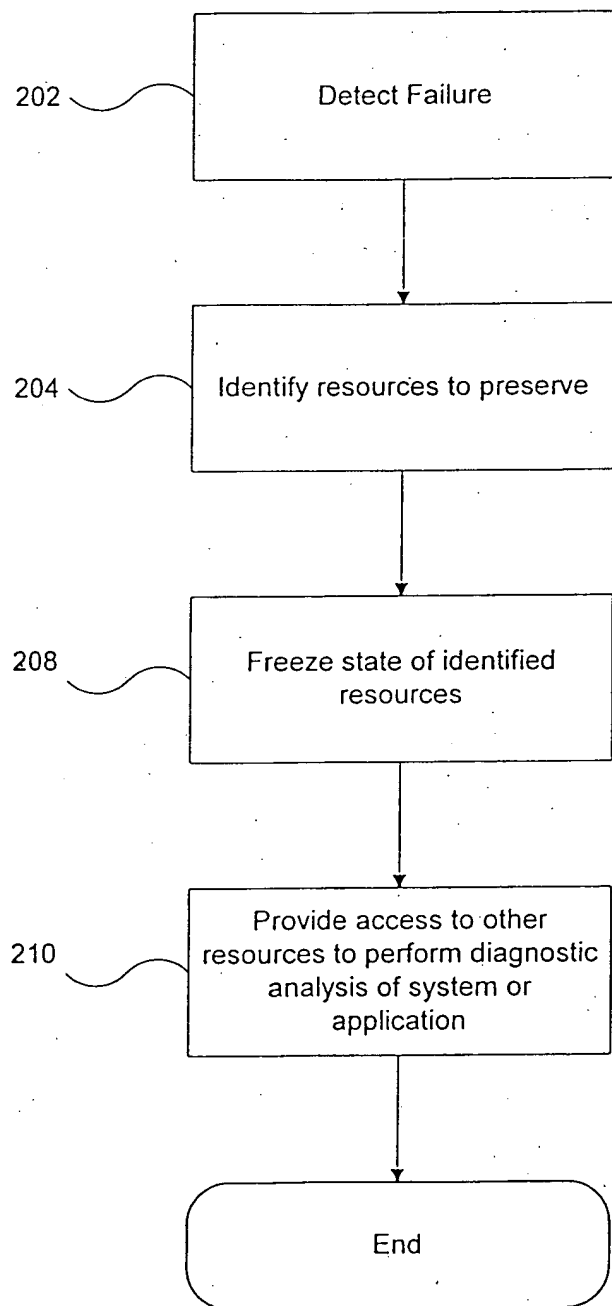


Fig. 1



Fig. 2



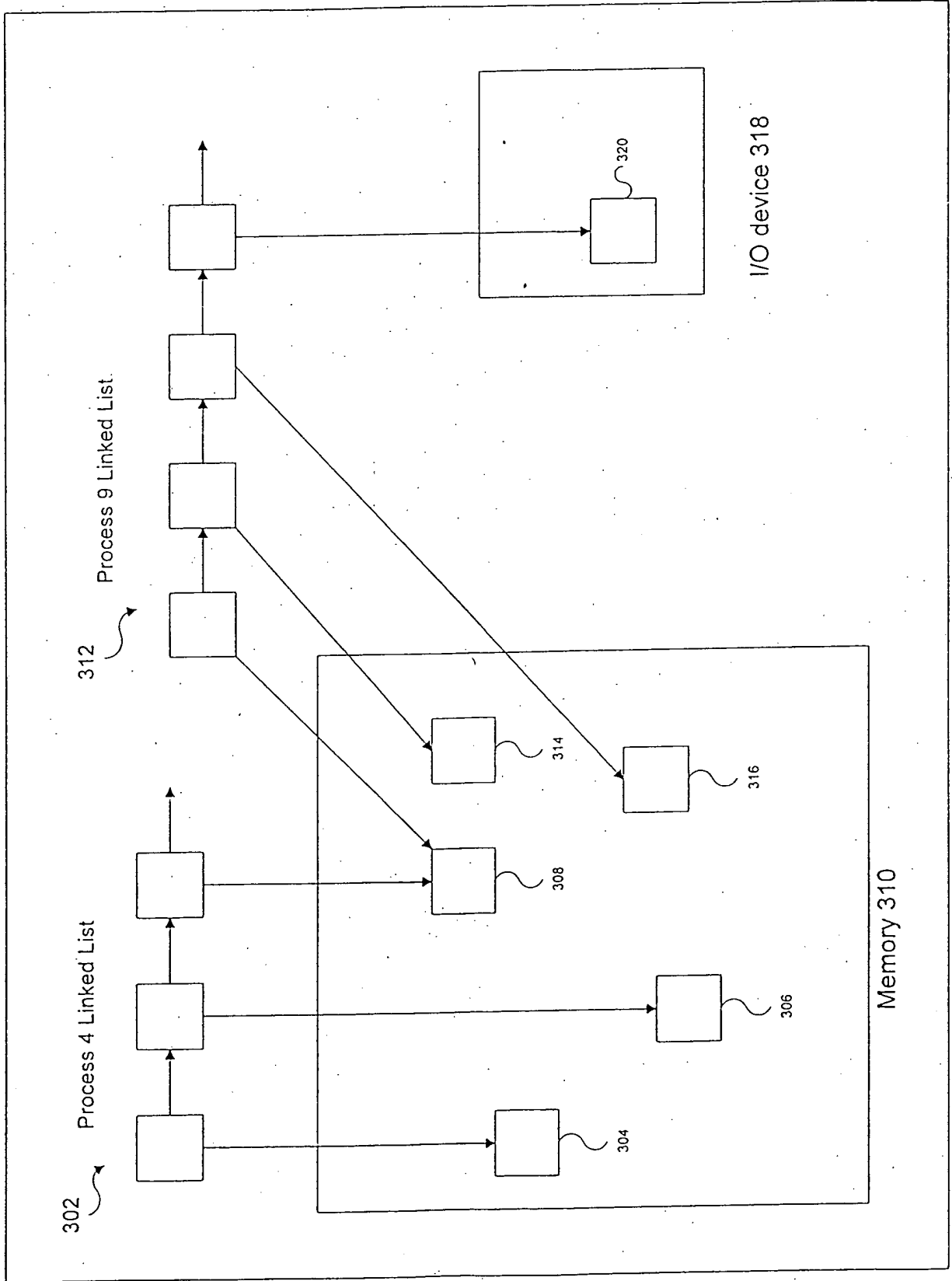


Fig. 3



	Process Type	Process IDs
402	OS Processes	Process 0, Process 1 Process 10
404	Database Application Processes	Process 2, Process 3, Process 4, Process 7, Process 8
406	Oracle Database Application Processes	Process 2, Process 3, Process 4
	Acme Database Application Processes	Process 7, Process 8
408	I/O Application Processes	Process 9, Process 11
	Communications Application Processes	Process 6, Process 12
	⋮	⋮

400

Fig. 4



<u>Failure Type</u>	<u>Processes to suspend</u>
Database application Failure	Database application processes
Database application failure with DB I/O operation failure	Database application processes; I/O processes
Failure type 3	Communications processes
Failure type 4	Operating system processes
.	.
.	.
.	.

Fig. 5



<u>Failure Type</u>	<u>Processes to suspend</u>	<u>Resources to state freeze</u>
Database application Failure	Database application processes	Resources associated with database application processes
Database application failure with DB I/O operation failure	Database application processes; I/O processes	Resources associated with database application processes; resources associated with I/O processes
Failure type 3	Communications processes	Resources associated with communications processes
Failure type 4	Operating system processes	Resources associated with operating system processes
.	.	.
.	.	.
.	.	.

604

Fig. 6

600

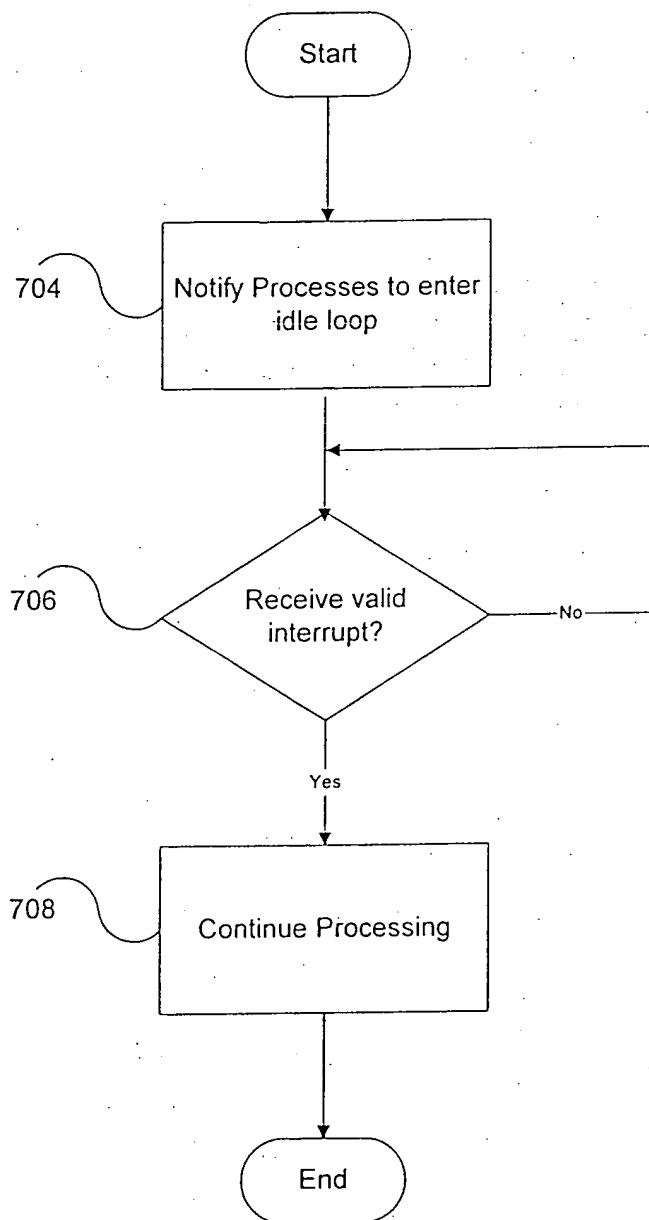


Fig. 7

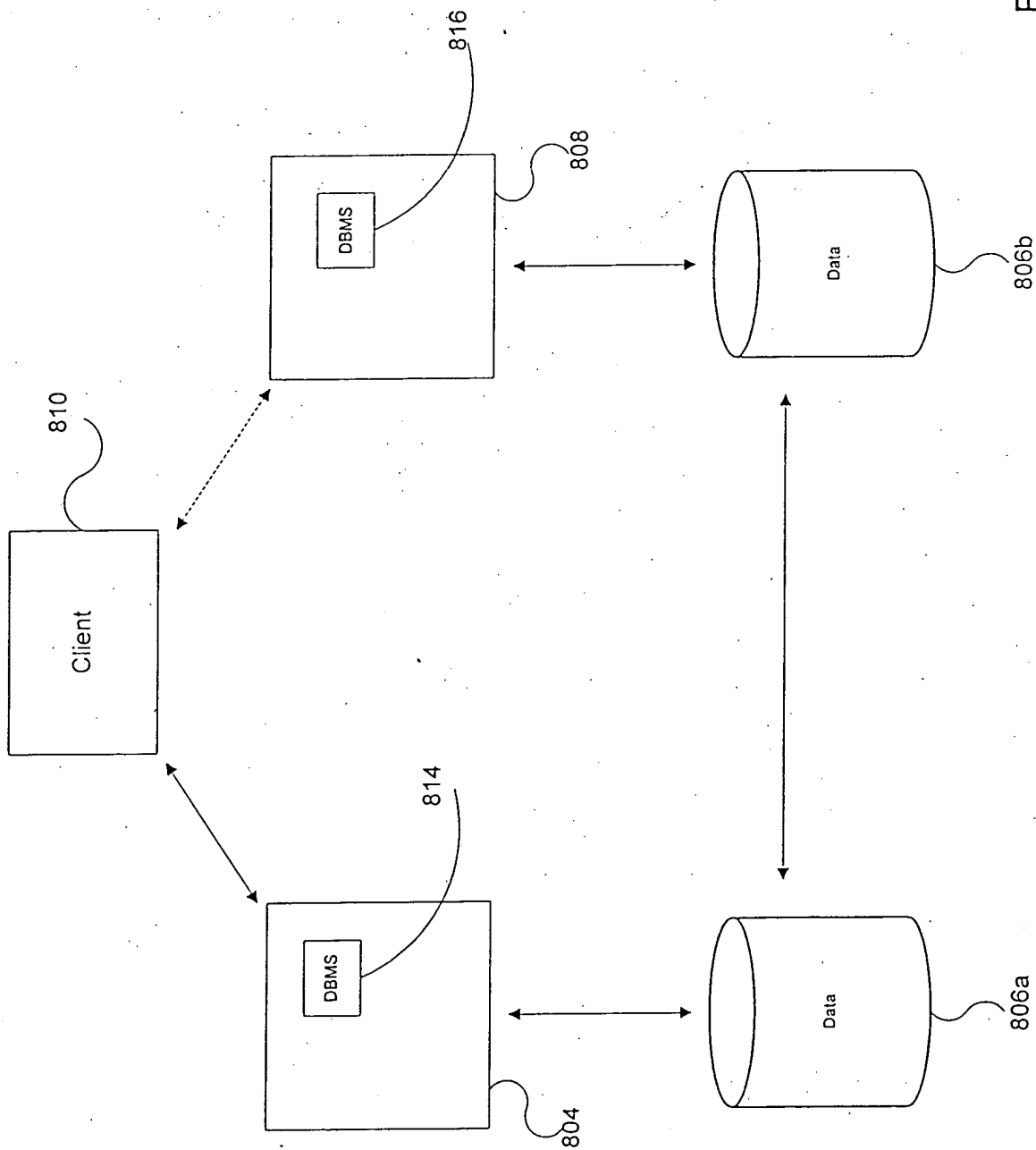


Fig. 8

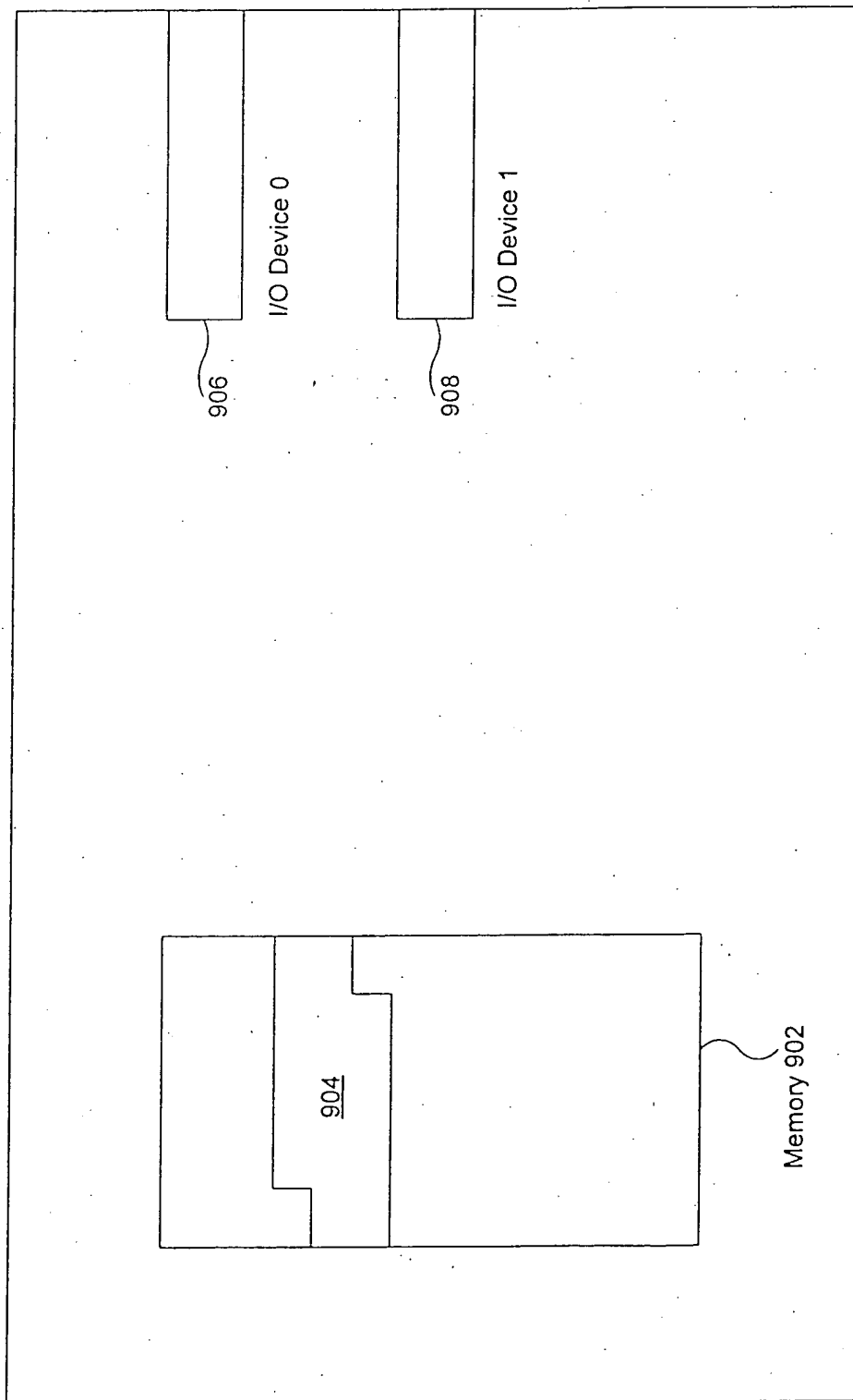
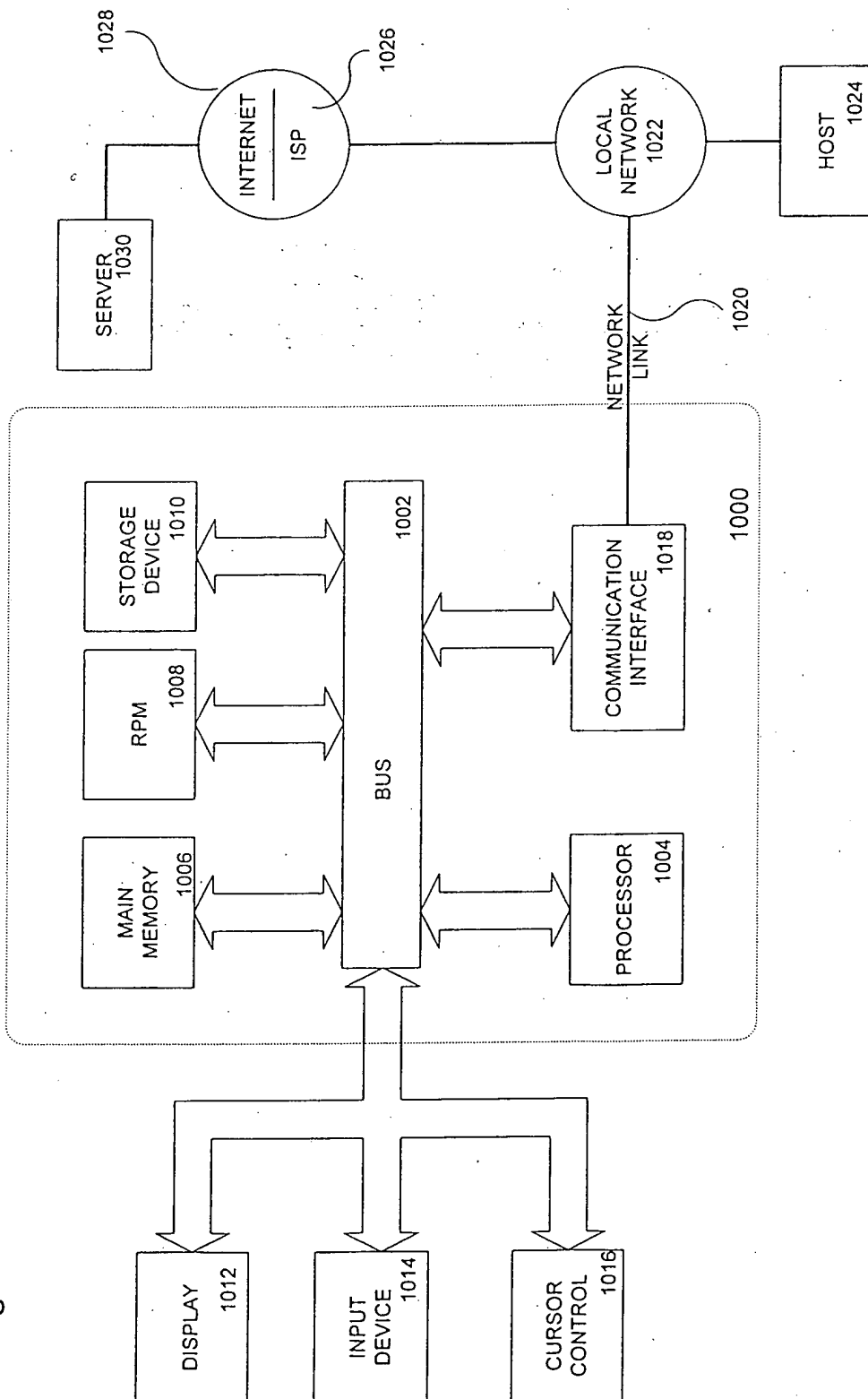


Fig. 9



Fig. 10



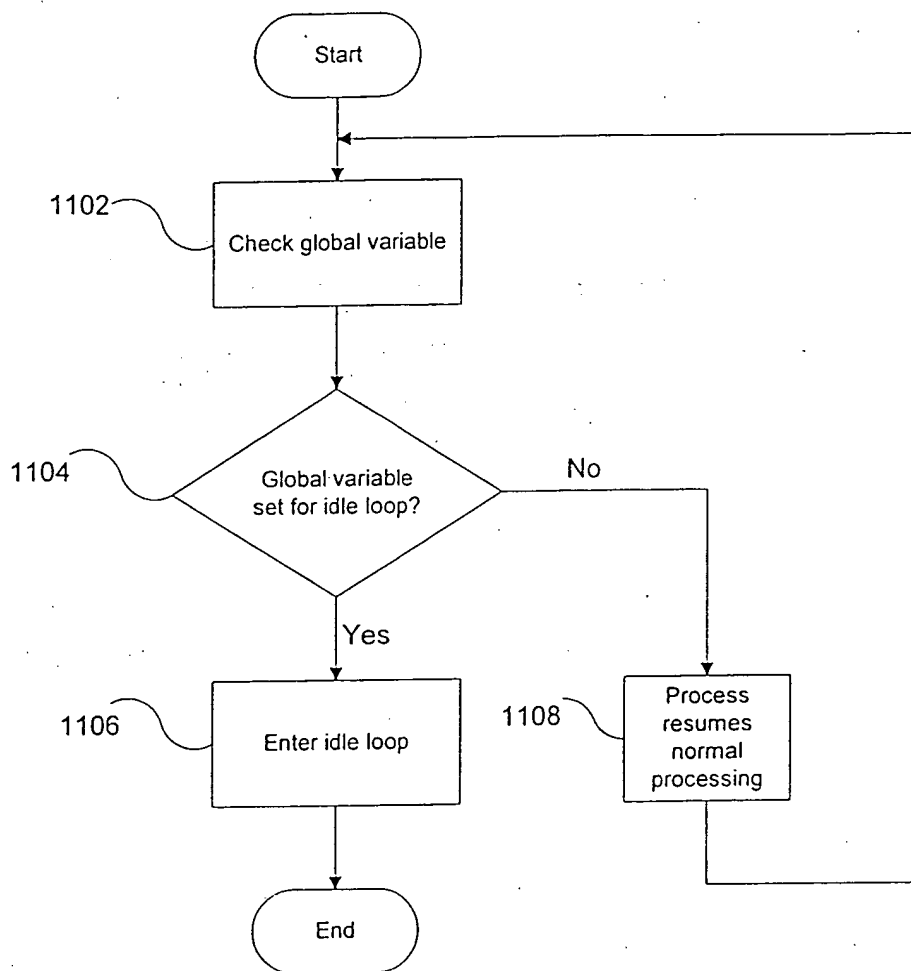


Fig. 11